



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/842,787	04/27/2001	Sharon Barkai	1069-US	7334	
24505	7590 08/16/2005		EXAMINER		
DANIEL J SWIRSKY PO BOX 2345			RYMAN, DANIEL J		
BEIT SHEM	· -		ART UNIT	PAPER NUMBER	
ISRAEL			2665		
			DATE MAILED: 08/16/200	DATE MAILED: 08/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Display 2, 787		Application No.	Applicant(s)				
Daniel J. Ryman 2055 Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays, a reply white he statistary minimum of hirty (30) stays will be considered limely. If the period for reply specified above is less than thirty (30) stays are all will see in the statistary reply received by the Office later han there must have been received. 1) Expected the subject of the must have been received. 2) Claim(s)							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. The Mail LINK DATE of THIS COMMUNICATION. If the period for only specified above is lose than thiny (30) days, all pays within the standary minimum of theiry (30) days will be considered timely. If the period for only specified above is lose than thiny (30) days, all the standary minimum of theiry (30) days will be considered timely. If the period for only specified above is lose than thiny (30) days, all the standary minimum of theiry (30) days will be considered timely. If the period for only specified above is lose than thiny (30) days, all the specified in to be communication. If the period for only specified above is lose than thiny (30) days, all the specified in the second and the specified in the second address of the specified in the second and the specified in the second address of the second and the specified in the second address of the second and the specified in the specified in the second and	Office Action Summary		Art Unit				
Preirod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions or time may be available under the provision of 3 CPR 1.13(d), in no event, however, may a reply be timely filled by the production of time may be available under the provision of 3 CPR 1.13(d), in no event, however, may a reply be timely filled by the production of time may be available under the provision of 3 CPR 1.13(d), in no event, however, may a reply be timely filled by the production of the reply appealed above, bit meaning additionable to produce the production of the communication, even it timely filed, may retine adjustment. See 37 CFR 1.74(d). Status 1)② Responsive to communication(s) filled on 27 April 2001. 2a)② This action is FINAL. 2b)② This action is final. 3)② Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)② Claim(s) 1.14 is/are rejected. 5)② Claim(s) is/are allowed. 6)② Claim(s) is/are allowed. 6)② Claim(s) is/are objected to by the Examiner. 9)② The specification is objected to by the Examiner. 10)② The drawing(s) filed on 27 April 2001 is/are: a)□ accepted or b)② objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edenticates of time map be available used the provision of 3 CPR 1.134(s), in no event, however, may a reply be timely filled Edenticates of time map be available used the provision of 3 CPR 1.134(s), in no event, however, may a reply be timely filled 1 the period for reply specified above is lose than thirty (30) days, a reply which the distulatory prinkfull upper and will agrisp its (8) MONTHS from the mailing date of this communication of reply is specified above is lose than theiry point of unique part and village its (8) MONTHS from the mailing date of this communication. Fallure to reply within the sold or ostended period for reply will, by adailute, cause the application to become ABANCONED (35 U.S.C. § 133). Status 1) Responsive to communication(s) filled on 27 April 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 1-14 is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) Is/are objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacament drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacament drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c)							
THE MAILING DATE OF THIS COMMUNICATION. Edentation of time may be available used the provision of 3 CPR 1.13(6). In no event, however, may a raply be timely filed other SX (5) MOXITISE from the mailing date of this communication. If NO period for raply is specified above, the maximum studency pelot within the statutory intrinsum of thinty, 20) days will be considered timely. If NO period for raply is specified above, the maximum studency pelot will apply and will explice 3(6) (MOXITISE that mailtains). Fallure to raply within the set or extended period for raply will, by studency and will explicate (5) (MOXITISE that mailtains). Fallure to raply within the set or extended period for raply will, by studency and will explicate (5) (6) (MOXITISE that mailtains). Fallure to raply within the set or extended period for raply will. By studency and will explication to become ARANDONED (35 U.S.C. § 133). Any topy received by the official extended the mailing date of this communication. Fallure to raply within the set or extended period for raply will. By studency and the raply and will explicate the mailing date of this communication. Fallure to reply within the set or extended period for raply will, by studency and the raply and will explicate the mailing date of this communication. Any increase of the set of the communication is not final. 1) Responsive to communication (s) filed on 27 April 2001 This action is non-final. 3) Is action in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 Is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-14 Is/are rejected. 7) Claim(s) 1-14 Is/are rejected to the structure of the set of the	Period for Reply						
1)⊠ Responsive to communication(s) filed on 27 April 2001. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)□ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)□ Claim(s) 1-14 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on 27 April 2001 is/are: a)□ accepted or b)☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5 □ Notice of Informal Patent Application (PTO-152)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S808)	Status						
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S808)	1) Responsive to communication(s) filed on 27 A	pril 2001.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 5) Claim(s) is/are objected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Preferences Cited (PTO-822) Notice of Informal Patent Application (PTO-152)							
A) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 27 April 2001 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of Draftsperson's Patent Organizing Review (PTO-948) a) □ Interview Summary (PTO-413) □ Paper No(s)/Mail Date	,	·—					
4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892)	closed in accordance with the practice under I	·— · · · · · · · · · · · · · · · · · ·					
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to . 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 27 April 2001 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of References Cited (PTO-892) 3) □ Interview Summary (PTO-413) Paper No(s)/Mail Date	Disposition of Claims						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to . 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 27 April 2001 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of References Cited (PTO-892) 3) □ Interview Summary (PTO-413) Paper No(s)/Mail Date	4) Claim(s) 1-14 is/are pending in the application.						
6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 27 April 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)	4a) Of the above claim(s) is/are withdra						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	5) Claim(s) is/are allowed.						
8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 27 April 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	6)⊠ Claim(s) <u>1-14</u> is/are rejected.	☑ Claim(s) <u>1-14</u> is/are rejected.					
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 27 April 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application (PTO-152)							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	8) Claim(s) are subject to restriction and/or election requirement.						
10)⊠ The drawing(s) filed on 27 April 2001 is/are: a) □ accepted or b)⊠ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2)□ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5)□ Notice of Informal Patent Application (PTO-152)	Application Papers						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)	9) The specification is objected to by the Examiner.						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5 ☐ Notice of Informal Patent Application (PTO-152)	11) The oath of declaration is objected to by the E	kaminer. Note the attached Office	Action of form PTO-152.				
a) \[All \] b) \[Some * c) \[None of: 1. \[Certified copies of the priority documents have been received. 2. \[Certified copies of the priority documents have been received in Application No 3. \[Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) \[Notice of References Cited (PTO-892)	Priority under 35 U.S.C. § 119	`					
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	a) All b) Some * c) None of: 1. Certified copies of the priority document	s have been received.					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)		•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	· · · · · · · · · · · · · · · · · · ·						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
, apolitical para interval, bilinos, UII I Ouidi.	3) 🖾 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) 🔲 Notice of Informal Patent Application (PTO-152)						

Application/Control Number: 09/842,787 Page 2

Art Unit: 2665

DETAILED ACTION

Drawings

1. The drawings are objected to because ref. "114" in Fig. 1B should be labeled "130" to match page 7, line 19 of the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2665

3. Claims 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Chatwani et al. (USPN 5,586,267).

4. Regarding claim 13, Chatwani discloses a method for topology discovery in an ATM network, the method comprising: configuring a plurality of active ports of a plurality of ATM devices with a VPI/VCI known not to exist in said network (meta-signaling VPI/VCI) (col. 14, lines 30-37 and col. 16, lines 6-15) where the meta-signaling VPI/VCI does not exist in the network at the start of the network; establishing a VC between a transmission source within said network and a selected one of said ATM devices along a known path, wherein said selected ATM device has at least one target active port for which a link to any other of said ports is not known to exist in said network (col. 9, line 62-col. 10, line 11 and col. 12, lines 5-14) where the claim language does not sufficiently link the first limitation and second limitation, see below; transmitting a cell from said transmission source to said selected ATM device along said path and via said target port (col. 9, line 62-col. 10, line 11 and col. 12, lines 5-14); detecting the arrival of said cell at any other of said ports (col. 9, line 62-col. 10, line 11 and col. 12, lines 5-14) where it is inherent that each port will detect cells entering the port; and where said cell arrives at only one other of said ports, maintaining in a topology graph a link between said target port and said one other of said ports (col. 9, line 62-col. 10, line 11 and col. 12, lines 5-14).

The claim language does not sufficiently link the first limitation and second limitation since the claim does not require that the established VC of the second limitation be the same VC as the VC of the configured VPI/VCI of the first limitation. The claim only requires that a plurality of ports are configured with a VPI/VCI and that a separate VC connection is established in the network. Thus, for example, the claim allows a plurality of devices to be configured with a

Art Unit: 2665

VPI/VCI of 0/1 and the separate connection to be established over 2/4. Here, only the selected ATM device will receive the separate VC connection 2/4, such that the third through fifth limitations of the claim are met.

5. Regarding claim 14, Chatwani discloses that said configuring step comprises configuring only those of said ports for which a link to any other of said ports is not known to exist in said network (col. 14, lines 30-37 and col. 16, lines 6-15) where at start-up links between ports are not known to exist between any ports.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 2, 4-9, 11, and 12, are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliva et al. (USPN 6,654,802) in view of Chatwani et al. (USPN 5,586,267).
- 8. Regarding claims 1 and 6, Oliva discloses a method for topology discovery in a network (col. 1, lines 20-25), the method comprising: identifying an active connection between two network device ports (col. 3, lines 7-23); and maintaining a link between said network device ports in a topology graph where said active connection has the same port identifiers stored at both of said ports (col. 3, lines 7-23; col. 6, lines 5-8; and col. 7, lines 32-41).

Oliva does not expressly disclose that the network is an ATM network, that the active connection is an active VC, or that the active connection has the same VPI/VCI at both of said ports. However, Oliva does disclose that the port identifiers are transmitted in overhead of the

Art Unit: 2665

system (col. 3, lines 7-15). Chatwani teaches, in a system for automatic topology discovery, that in an ATM network (col. 1, lines 13-19) an active connection is an active VC (col. 9, line 62-col. 10, line 11) and that the VPI/VCI can be used to store port identifiers and to identify a node (col. 14, line 23-27 and col. 16, lines 6-14) where the VPI/VCI is overhead for the system. Chatwani's system performs network discovery without flooding the network (col. 6, lines 23-25). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to implement a topology discovery mechanism in an ATM network, where an active connection is an active VC, by storing the port identifiers and node identifiers in the VPI/VCI in order to perform network discovery without flooding the network.

Further regarding claim 6, Oliva in view of Chatwani discloses removing from said topology graph said link between said ATM device ports where no active VC having the same VPI/VCI at both of said ports is identified for said link (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55).

- 9. Regarding claim 2, Oliva in view of Chatwani discloses that said identifying step comprises identifying said active VC as being a VC having a traffic indicator at either of said ports indicating that a flow of bi-directional network traffic has been detected within a user-defined period of time (Oliva: col. 5, lines 10-11 and col. 7, lines 32-41 and Chatwani: col. 10, lines 3-11 and col. 19, lines 46-55).
- 10. Regarding claims 4 and 11, Oliva in view of Chatwani suggests that said maintaining step comprises maintaining where no other ATM device port in said network has a VPI/VCI for an active VC that is the same as the VPI/VCI for said active VC identified at said ports or for said

Art Unit: 2665

link (Chatwani: col. 16, lines 15-41) where each VPI/VCI is unique for a particular port since this value identifies this port.

- 11. Regarding claim 5, Oliva in view of Chatwani discloses that said identifying step comprises identifying said active VC in a topology graph of interconnections between a plurality of ATM device ports for which port VC information has been gathered (Oliva: col. 5, line 59-col. 6, line 8 and Chatwani: col. 19, lines 46-55).
- 12. Regarding claim 7, Oliva in view of Chatwani discloses that said removing step comprises removing where at least one of said ports has no active VC (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55).
- Regarding claim 8, Oliva in view of Chatwani suggests that said removing step comprises removing where an active VC whose VPI/VCI is not defined is found for at least one of said ports. Oliva in view of Chatwani discloses removing a VC when there is a problem with the VC (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55). Oliva in view of Chatwani also disclose that the VPI/VCI values are strictly defined in the network (Chatwani: col. 16, lines 15-41). Thus, if a VPI/VCI that is not defined is found to be active then it is obvious that a problem has occurred on the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the removing step comprise removing where an active VC whose VPI/VCI is not defined is found for at least one of said ports.
- 14. Regarding claim 9, Oliva in view of Chatwani suggests that said removing step comprises removing where an active VC identified at one of said ports is not an active VC at the other of said ports. Oliva in view of Chatwani discloses removing a VC when there is a problem with the VC (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55). Oliva in view of Chatwani

Art Unit: 2665

also disclose that the VPI/VCI should be active at both ports in order to conclude that the link is active (Oliva: col. 3, lines 7-23; col. 6, lines 5-8; and col. 7, lines 32-41 and Chatwani: col. 14, line 23-27 and col. 16, lines 6-14). Thus, if a VPI/VCI is not active on both ports then it is obvious that a problem has occurred on the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the removing step comprise removing where an active VC identified at one of said ports is not an active VC at the other of said ports.

- 15. Regarding claim 12, Oliva in view of Chatwani suggests removing from said topology graph link between said ATM device ports where another ATM device port in said network has a VPI/VCI for an active VC that is the same as the VPI/VCI for said active VC identified for said link. Oliva in view of Chatwani discloses removing a VC when there is a problem with the VC (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55). Oliva in view of Chatwani also disclose that the VPI/VCI values are strictly defined in the network (Chatwani: col. 16, lines 15-41). Thus, if a VPI/VCI is defined for two ports then it is obvious that a problem has occurred on the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to remove from said topology graph link between said ATM device ports where another ATM device port in said network has a VPI/VCI for an active VC that is the same as the VPI/VCI for said active VC identified for said link.
- 16. Claims 3 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oliva et al. (USPN 6,654,802) in view of Chatwani et al. (USPN 5,586,267) as applied to claims 1 and 6 above, and further in view of Schenkel et al. (USPN 5,926,462).

Art Unit: 2665

17. Regarding claims 3 and 10, Oliva in view of Chatwani does not expressly disclose that said maintaining step comprises maintaining where said devices and said ports have compatible operational profiles. Shenkel teaches, in a system for topology discovery, using traffic volumes transmitted from and received by ports, which, as broadly defined, comprise an operational profile, in order to determine network topology in a general manner (col. 1, line 60-col. 2, line 14). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the maintaining step comprise maintaining where said devices and said ports have compatible operational profiles in order to implement topology discovery in a general manner.

Further regarding claim 10, Oliva in view of Chatwani in further view of Shenkel suggests that said removing step comprises removing where said devices or said ports have incompatible operational profiles. Oliva in view of Chatwani in further view of Shenkel suggests removing a VC when there is a problem (Oliva: col. 7, lines 33-41 and Chatwani: col. 19, lines 46-55). Thus, if the operational profiles do not match then it is obvious that a problem has occurred on the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the removing step comprises removing where said devices or said ports have incompatible operational profiles.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 7:00-4:30 with every other Friday off.

Art Unit: 2665

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DIZ

Daniel J. Ryman

Page 9

Examiner

Art Unit 2665

HUY D. **V**U

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600